DEFENSE
Systems Digest

LAST CALL FOR JOURNAL ARTICLES!

After a long absence, the DSIAC Journal is returning! We are now accepting abstracts for our first issue and need your help!

This issue will be a general edition covering any of DSIAC's 10 focus areas.

WHAT TO INCLUDE IN ABSTRACT:

- 200 words
- Prospective title
- Your organization
- All authors
- Highlighted focus area(s)

ARTICLE DEADLINE:
October 16, 2023

SUBMIT IDEAS/ABSTRACT:
journal@dsiac.org

To view previous DSIAC journals, visit https://dsiac.org/journals.

DID YOU MISS OUR LAST WEBINAR?

"Integration of Shipborne Additively Manufacturing Systems Onto Naval Vessels and the Naval Supply Chain Impacts"

▶ WATCH NOW!

or download the slides

ACTIVE TECHNICAL INQUIRY

How can the U.S. Department of Defense (DoD) define a unified process for source approval requests (SARs)?

The Defense Systems Information Analysis Center (DSIAC) is seeking solutions for defining a unified process for the submission, evaluation, and acceptance criteria for source approval requests (SARs) across all DoD services and agencies. The desired solution would identify... **READ MORE**

UPCOMING WEBINAR

DVIDS

Emerging Applications of Machine Learning and Predictive Analytics...

October 4, 2023
12:00 PM – 1:00 PM

Presenter: Zhenhua Jiang   *Host:* DSIAC

This webinar will present several emerging applications of artificial intelligence and machine learning (ML) in naval energy autonomy and digital transformation and summarize relevant research and development efforts carried out by the University of Dayton Research Institute (UDRI) in a contract with... **READ MORE**

FUTURE WEBINARS

DMSMS and Additive Manufacturing

November 8, 2023
12:00 PM – 1:00 PM

Multiscale Study of Hypersonic Vehicles: From Turbulence...

December 13, 2023
12:00 PM – 1:00 PM

USD(R&E)

HIGHLIGHT

National Defense Science & Technology Strategy 2023

The U.S. Department of Defense (DoD) released the unclassified version of the National Defense Science and Technology Strategy, or NDSTS. Guided by the National Defense Strategy, the NDSTS articulates the science and technology priorities, goals, and investments of the Department and makes recommendations on the future of the defense research and engineering enterprise.

"To achieve the objectives of the NDS, we must leverage critical emerging technologies," said Heidi Shyu, DoD Chief Technology Officer. "This Strategy helps us make carefully crafted decisions that bolster our comparative advantages rather than engaging in wasteful technology races. **LEARN MORE**

EVENTS

Hypersonic Technology & Systems Conference (HTSC)
October 16–19, 2023
North Logan, UT

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Fundamentals of Random Vibration and Shock Testing Training (NTS Silicon Valley, CA)
November 7–9, 2023
NTS Silicon Valley, CA

Military Standard 810 (MIL-STD-810) Test Training (NTS Huntsville, AL)
December 4–7, 2023
NTS Huntsville, AL

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Want your event listed here?
Email contact@dsiac.org to share your event.

VOICE FROM THE COMMUNITY

Dallas Rosson, PMP
Principal Engineer, Naval Undersea Warfare Center Keyport

Dallas Rosson serves as a principal engineer responsible for engineering oversight, process and policy planning and management, digital transformations, Agile Scrum oversight and training, and project management for various Navy programs. He performs and oversees research utilizing machine learning and artificial intelligence, focusing in logistics, supply chain risk, obsolescence predictions, and diminishing manufacturing sources and material shortages impacts. He is a board member of the Naval Engineering Education Consortium and doctoral fellow at Colorado State University.

ARE YOU A SME?

If you are a contributing member of the information systems community and are willing to help others with your expertise, you are a subject matter expert (SME)!

Join our team today!

BECOME A SUBJECT MATTER EXPERT

ABOUT TECHNICAL INQUIRIES (TIs)

WHAT IS THE TI RESEARCH SERVICE?

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WHO CAN SUBMIT A TI?

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- Contractors working on a government or military contract

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To submit a TI, go to
https://dsiac.org/technical-inquiries

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U.S. DoD

RECENT DSIAC TIs

- What is the process to submit engine data sheets to JANNAF's Liquid Rocket Engine Database?

- What publications and information are available on passive ranging, to include monocular passive ranging?

- Are there methods or templates to produce conceptual models for MBSE tools?

RECENT CSIAC & HDIAC TIs

- Can you provide information on sensor fusion research (e.g., radars and sensors) using ML or AI methods, regardless of military application?

- How can you identify the underlying framework used in AI/ML models and extract the binary?

- What technical documents discuss using AI for detecting the proliferation/counterproliferation of WMD materials?

FEATURED NEWS

### DoD Will Deploy AI-Enabled Detection System to Monitor D.C. Airspace

An artificial intelligence-powered airspace monitoring system is set to be installed to enhance protection of the nation's capital with the potential to scale across other Defense Department and U.S. government... **READ MORE**

RECENT NEWS
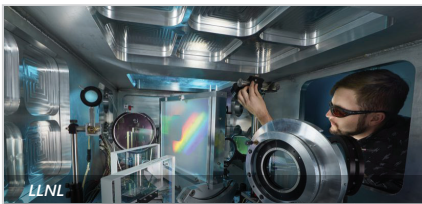
LLNL

LLNL's Jupiter Laser Facility Funding Renewed for Additional Research in Discovery Science

Lawrence Livermore National Laboratory

SLAC National Accelerator Laboratory
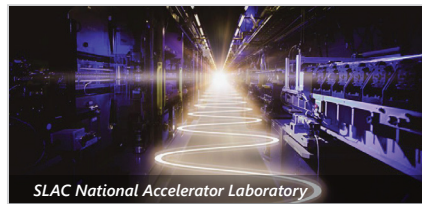
SLAC Fires Up the World's Most Powerful X-ray Laser: LCLS-II Ushers in a New Era of Science

Fermilab

Ames National Laboratory

Researchers Use AI to Find New Magnetic Materials Without Critical Elements

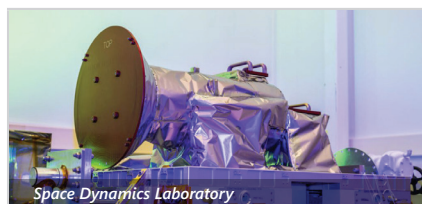Ames National Laboratory

U.S. Air Force

AI-Enabled Air Vehicle Accomplishes Tactical Testing

Air Force Reasearch Laboratory
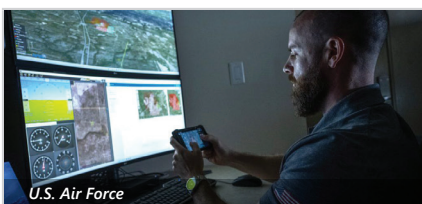
U.S. Air Force

Partnership Agreement Furthers Safety of Advanced Aircraft Mobility in Low-Altitude...

Air Force Reasearch Laboratory

Space Dynamics Laboratory

NASA's Atmospheric Waves Experiment Completes Space Environment Tests

NASA

Advanced Materials

Autonomous Systems

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Military Sensing

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